AMENDMENTS TO THE CLAIMS

The following Listing of Claims replaces all previous listings of claims in this

application.

Listing of Claims:

1. (Previously presented) A catalyst for gas-phase oxidations prepared by a process

comprising contacting a support with an aqueous suspension or solution comprising a transition

metal oxides composition or their precursor compounds, wherein the suspension or solution

contains a binder dispersion comprising a copolymer consisting essentially of an α -olefin whose

α-olefin content is from 37 to 30 mol% and a vinyl-C₂-C₄-carboxylate whose vinyl-C₂-C₄-

carboxylate content is from 63 to 70 mol%.

2. (Previously presented) A catalyst as claimed in claim 1, wherein the vinyl-C₂-C₄-

carboxylate copolymer is a vinyl acetate copolymer.

3. (Original) A catalyst as claimed in claim 2, wherein the vinyl acetate copolymer

is an ethylene-vinyl acetate copolymer.

4. (Currently amended) A catalyst as claimed in claim 3, wherein the ethylene-vinyl

acetate copolymer comprises consists of from 63 to 70 mol% of vinyl acetate and from 37 to 30

mol% of ethylene.

5. (Previously presented) A catalyst as claimed in claim 1, wherein the transition

metal oxides composition comprises from 1 to 40% by weight of vanadium oxide, calculated as

V₂O₅, and from 60 to 99% by weight of titanium dioxide, calculated as TiO₂.

6. (Previously presented) A catalyst as claimed in claim 5, wherein the transition

metal oxides composition further comprises up to 1% by weight of a cesium compound,

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calculated as Cs, up to 1% by weight of a phosphorus compound, calculated as P, or up to 10%

by weight of antimony oxide, calculated as Sb₂O₃.

7. (Previously presented) A process for preparing aldehydes, carboxylic acids

and/or carboxylic anhydrides, comprising providing a gaseous stream comprising an aromatic

hydrocarbon and a gas comprising molecular oxygen and contacting the gaseous stream with a

catalyst as claimed in claim 1 at an elevated temperature.

8. (Previously presented) A process as claimed in claim 7, wherein the catalyst is

produced in situ from a precatalyst at an elevated temperature sufficient to decompose the

copolymer.

9. (Previously presented) A process as claimed in claim 7, wherein the aromatic

hydrocarbon is selected from o-xylene, naphthalene or a mixture of o-xylene and naphthalene.

10. (Previously presented) A precatalyst comprising transition metal oxides attached

to a support with a binder, wherein the binder comprises a copolymer consisting essentially of an

α-olefin, wherein the α-olefin content is from 37 to 30 mol%, and a vinyl-C₂-C₄-carboxylate,

wherein the vinyl-C₂-C₄-carboxylate content is from 63 to 70 mol%.

11. (Currently amended) The precatalyst according to claim 10, wherein the

copolymer is an ethylene-vinyl acetate copolymer comprising consisting of from 63 to 70 mol%

of vinyl acetate and from 37 to 30 mol% of ethylene.

12. (Previously presented) The precatalyst according to claim 10, wherein the

transition metal oxides comprises from 1 to 40% by weight of vanadium oxide, calculated as

V₂O₅, and from 60 to 99% by weight of titanium dioxide, calculated as TiO₂.

13. (Previously presented) The precatalyst according to claim 12, wherein the

transition metal oxides are disposed in at least a two zone catalyst system, wherein the upstream

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zone of the catalyst system contains an upstream pre-catalyst that contains less vanadium oxide

relative to the amount of titanium oxide than a downstream pre-catalyst.

14. (Previously presented) The precatalyst according to claim 13, wherein the

upstream pre-catalyst further comprises up to 10% by weight of antimony oxide, calculated as

Sb₂O₃, and the down stream catalyst comprises up to 1% by weight of a phosphorus compound,

calculated as P.

15. (Previously presented) A binder composition in combination with transition

metal oxides, the binder composition comprising a copolymer consisting essentially of an α-

olefin, wherein the α-olefin content is from 37 to 30 mol%, and a vinyl-C₂-C₄-carboxylate,

wherein the vinyl-C₂-C₄-carboxylate content is from 63 to 70 mol%.

16. (Currently amended) The binder composition according to claim 15, wherein the

copolymer is an ethylene-vinyl acetate copolymer comprises consisting of from 63 to 70 mol%

of vinyl acetate and from 37 to 30 mol% of ethylene.

17. (Previously presented) The binder composition according to claim 15, wherein

the transition metal oxides comprises from 1 to 40% by weight of vanadium oxide, calculated as

 V_2O_5 , and from 60 to 99% by weight of titanium dioxide, calculated as TiO_2 .

18. (Previously presented) A catalyst as claimed in claim 5, wherein the catalyst has

an H₂ consumption of less than 5.5 mol/mol of vanadium.

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